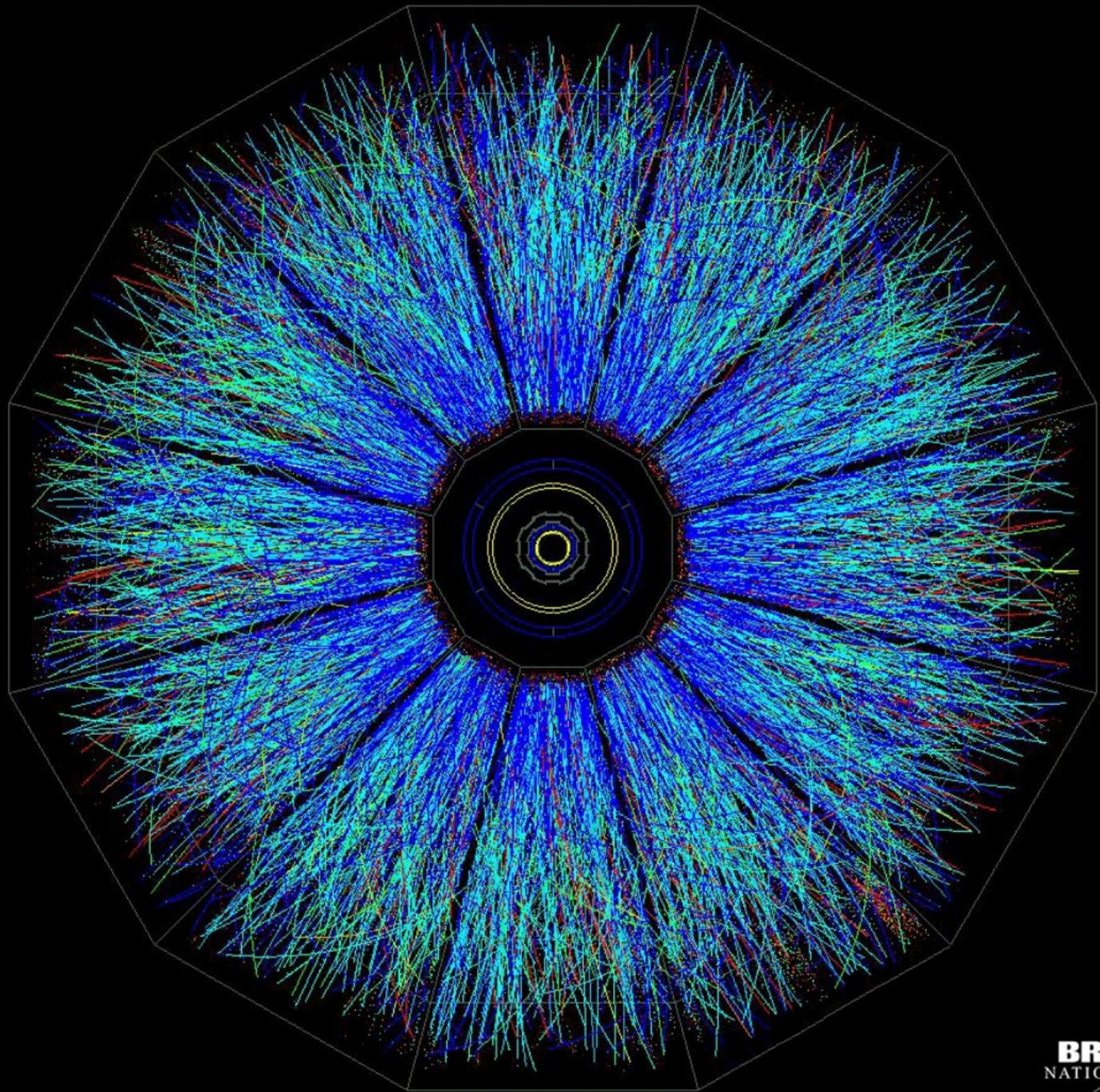


# STAR Status Update

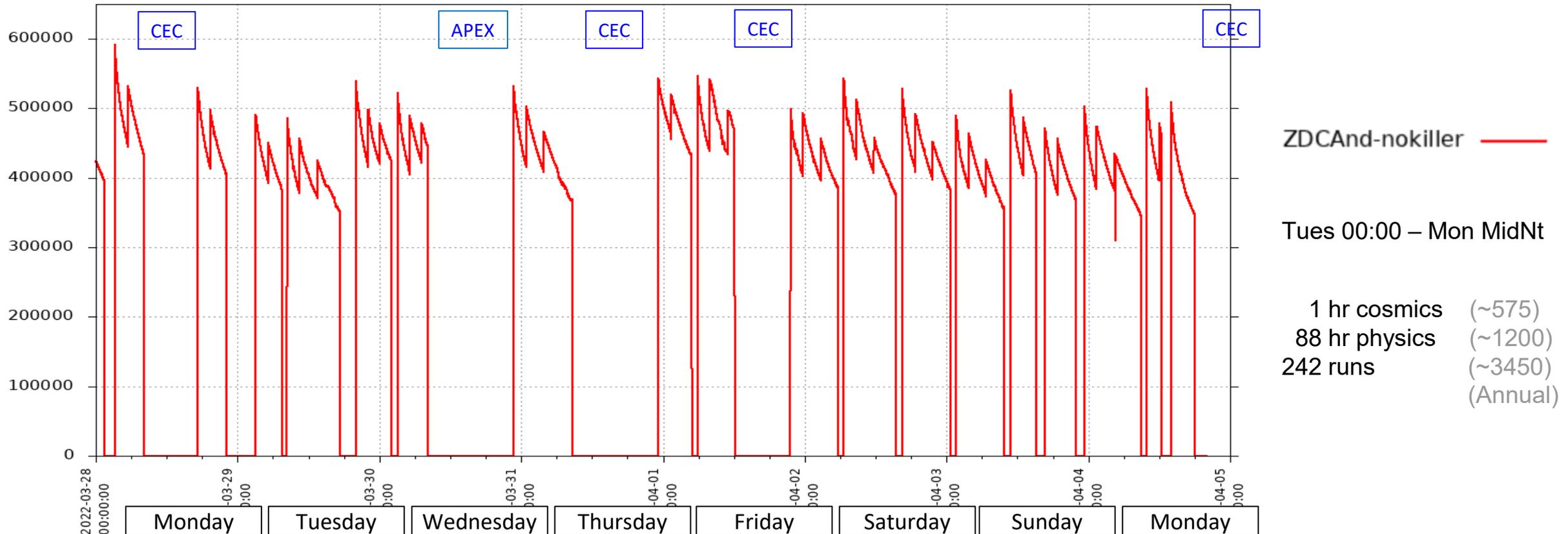
Jim Thomas

April 05, 2022

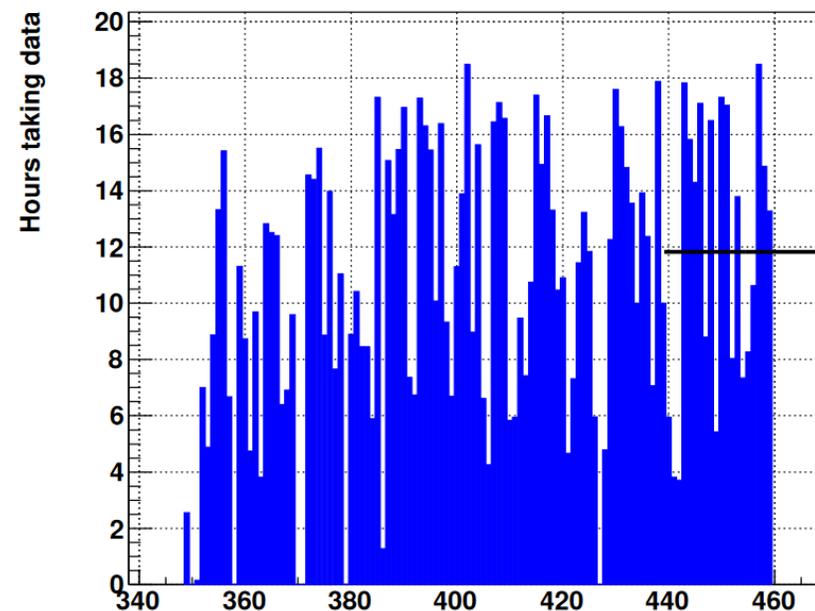


## Overview for the week

- STAR has adopted a lower effective cross-section for pp interactions (2.06 mb  $\Rightarrow$  1.86 mb)
  - This will affect comparisons with plots and figures of merit from previous weeks (e.g. FOM  $\uparrow$ )
- Requested ZDC rate lower, extracted AGS current lower, Polarization generally high 40's to mid 50's
- Record setting weekend – STAR ran for 18.5 hours on Saturday. More than any other day in Run 22.

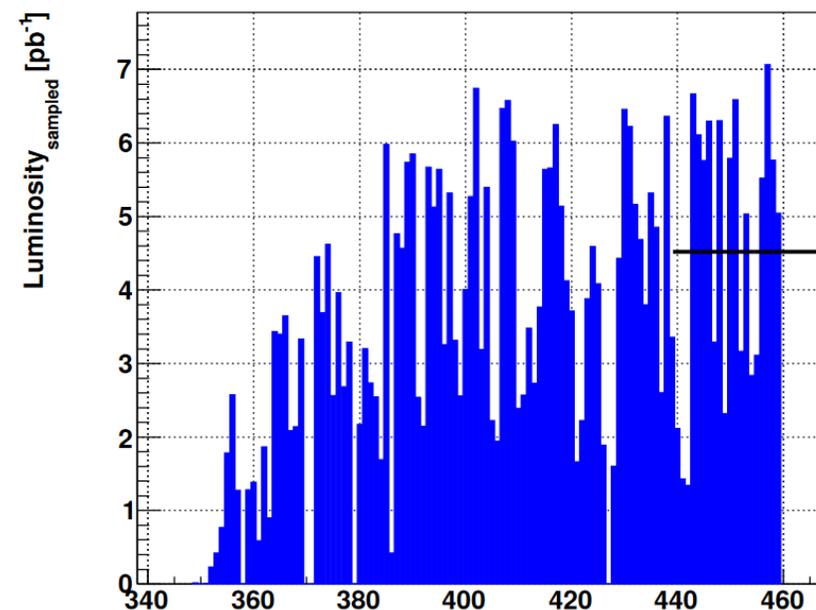
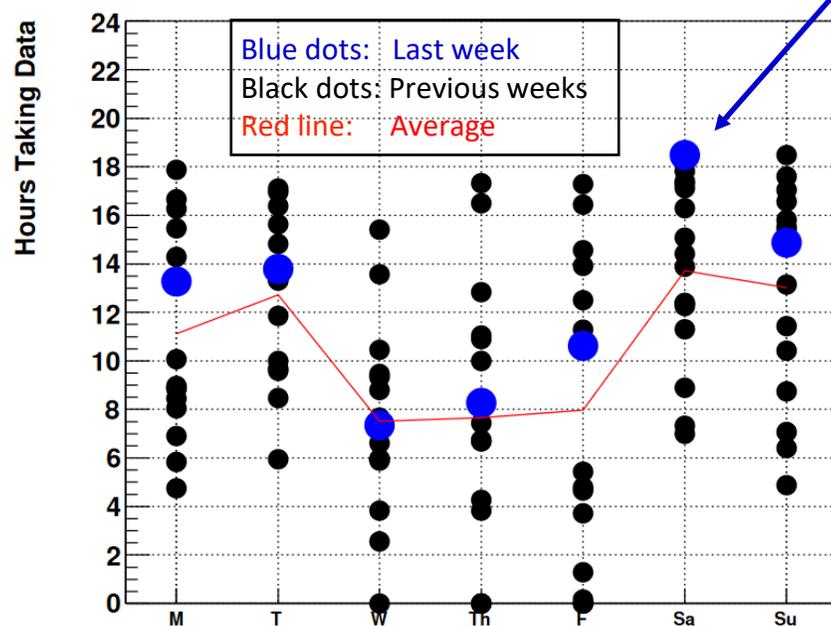


- Last Week (Previous week): (new  $\sigma$ )
  - Avg. DAQ hrs/day = 11.8 (11.5) ↓
  - Avg. Samp. Lumi/day = 4.5 pb<sup>-1</sup> (4.3 pb<sup>-1</sup>)
  - Jet Polarization Y&B ~52%, up from last week

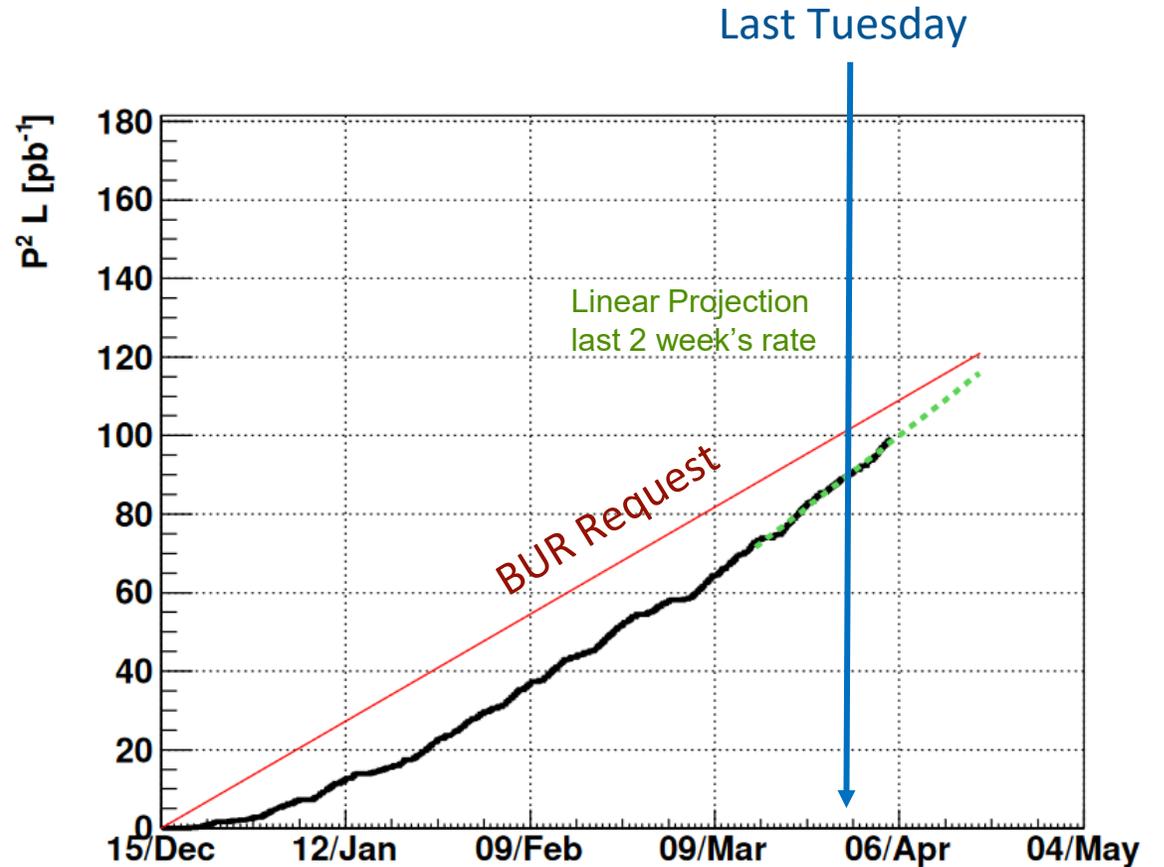
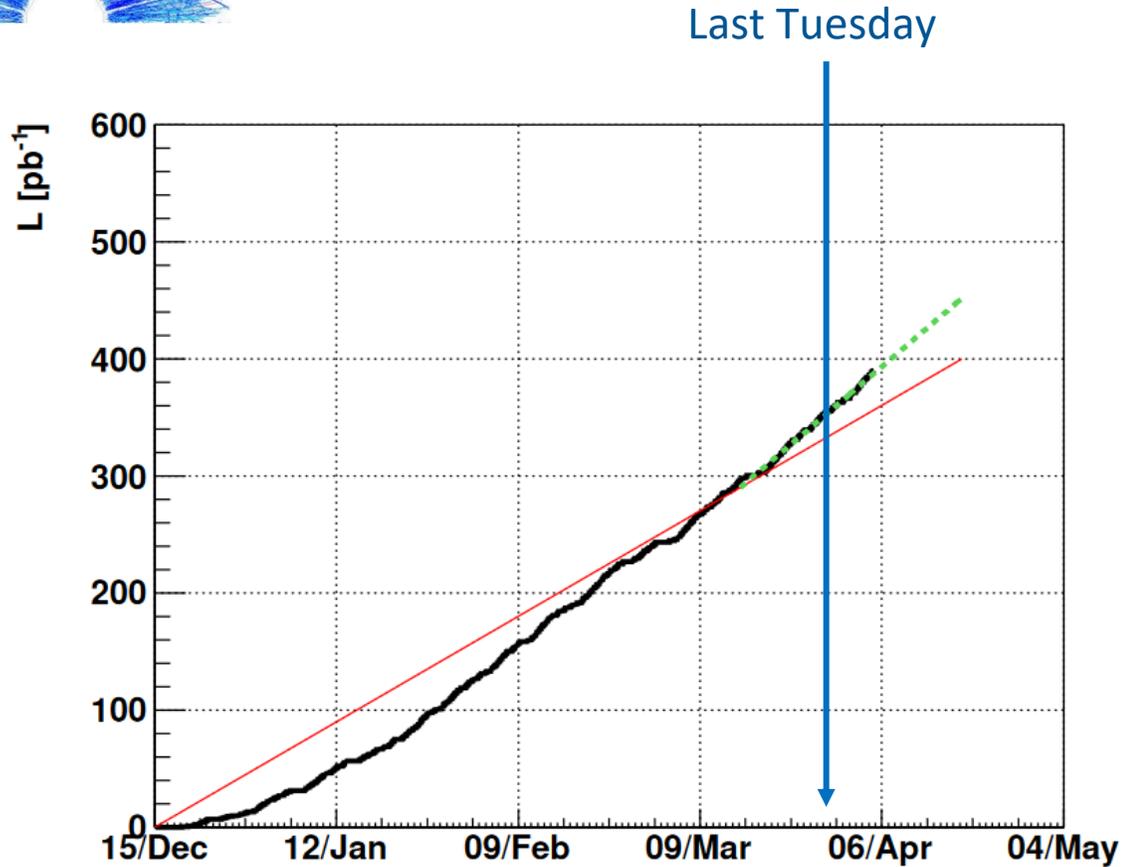


STAR DAQ  
hours per day

Hours per day distribution



Sampled  
Luminosity  
per day



- BUR request  $P^2 L = 120$  pb<sup>-1</sup> (Statistics, shown below, are as of Monday Midnight)
- Currently at  $P^2 L = 99$  pb<sup>-1</sup>, 82% of BUR goal. 10 pb<sup>-1</sup> since last week in  $P^2 L$ .
- Projection to reach  $P^2 L = 115$  pb<sup>-1</sup> by end of run w/o CeC etc. etc. (new revised cross section)